Aeronautics Educator Guide			
2007 Science and Technology			
Learning Results: Parameters for Essential Instruction			
Maine Science and Technology			
Grades PK-2			
Activity/Lesson	**State**	**Standards**	
Air Engines (12-16)	ME	SCT.PK-2.C1.a	Describe how scientific investigations involve asking and answering a question.
Air Engines (12-16)	ME	SCT.PK-2.D4.a	Describe different ways things move and what it takes to start objects moving, keep objects moving, or stop objects.
Rotor Motor (69-75)	ME	SCT.PK-2.C1.a	Describe how scientific investigations involve asking and answering a question.
Flight: Interdisciplinary Learning Activities (76-79)	ME	SCT.PK-2.B1.b	Safely conduct simple investigations to answer questions.
Where is North? The Compass Can Tell Us (87-90)	ME	SCT.PK-2.B1.b	Safely conduct simple investigations to answer questions.
Where is North? The Compass Can Tell Us (87-90)	ME	SCT.PK-2.C1.a	Describe how scientific investigations involve asking and answering a question.
Dunked Napkin (17-22)	ME	SCT.PK-2.C1.b	Point out the importance of describing things and investigations accurately so others can learn about them or repeat them.
Paper Bag Mask (23-28)	ME	SCT.PK-2.B1.b	Safely conduct simple investigations to answer questions.
Wind in Your Socks) (29-35)	ME	SCT.PK-2.B1.b	Safely conduct simple investigations to answer questions.
Wind in Your Socks) (29-35)	ME	SCT.PK-2.C1.a	Describe how scientific investigations involve asking and answering a question.
Sled Kite (44-51)	ME	SCT.PK-2.B2.c	Use suitable tools, materials, safe techniques, and measurements to implement a proposed solution to a design problem.
Sled Kite (44-51)	ME	SCT.PK-2.C1.a	Describe how scientific investigations involve asking and answering a question.
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Grades 3-5			
Activity/Lesson	**State**	**Standards**	
Air Engines (12-16)	ME	SCT.3-5.B1.a	Pose investigable questions and seek answers from reliable sources of scientific information and from their own investigations.
Rotor Motor (69-75)	ME	SCT.3-5.B1.a	Pose investigable questions and seek answers from reliable sources of scientific information and from their own investigations.

Flight: Interdisciplinary Learning Activities (76-79)	ME	SCT.3-5.B1.b	Plan and safely conduct investigations including simple experiments that involve a fair test.
Making Time Fly (80-86)	ME	SCT.3-5.C1.a	Describe how scientists answer questions by developing explanations based on observations, evidence, and knowledge of the natural world.
Making Time Fly (80-86)	ME	SCT.3-5.C2.b	Describe how engineers seek solutions to problems through the design and production of products.
Where is North? The Compass Can Tell Us (87-90)	ME	SCT.3-5.B1.a	Pose investigable questions and seek answers from reliable sources of scientific information and from their own investigations.
Where is North? The Compass Can Tell Us (87-90)	ME	SCT.3-5.B1.b	Plan and safely conduct investigations including simple experiments that involve a fair test.
Let's Build a Table Top Airport (91-96)	ME	SCT.3-5.B2.b	Propose a solution to a design problem that recognizes constraints including cost, materials, time, space, or safety.
Let's Build a Table Top Airport (91-96)	ME	SCT.3-5.B2.e	Evaluate their own design results, as well as those of others, using established criteria.
Let's Build a Table Top Airport (91-96)	ME	SCT.3-5.B2.f	Modify designs based on results of evaluations.
Dunked Napkin (17-22)	ME	SCT.3-5.B1.b	Plan and safely conduct investigations including simple experiments that involve a fair test.
Paper Bag Mask (23-28)	ME	SCT.3-5.B1.a	Pose investigable questions and seek answers from reliable sources of scientific information and from their own investigations.
Paper Bag Mask (23-28)	ME	SCT.3-5.B1.b	Plan and safely conduct investigations including simple experiments that involve a fair test.
Wind in Your Socks) (29-35)	ME	SCT.3-5.B2.c	Use appropriate tools, materials, safe techniques, and quantitative measurements to implement a proposed solution to a design problem.
Bag Balloons (40-43)	ME	SCT.3-5.B1.a	Pose investigable questions and seek answers from reliable sources of scientific information and from their own investigations.
Bag Balloons (40-43)	ME	SCT.3-5.C1.a	Describe how scientists answer questions by developing explanations based on observations, evidence, and knowledge of the natural world.
Sled Kite (44-51)	ME	SCT.3-5.B2.c	Use appropriate tools, materials, safe techniques, and quantitative measurements to implement a proposed solution to a design problem.
Sled Kite (44-51)	ME	SCT.3-5.B2.d	Balance simple constraints in carrying out a proposed solution to a design problem.
Sled Kite (44-51)	ME	SCT.3-5.B2.g	Present the design problem, process, and design or solution using oral, written, and/or pictorial means of communication.

Delta Wing Glider (60-68)	ME	SCT.3-5.A2.a	Represent the features of a real object, event, or process using models including geometric figures, number sequences, graphs, diagrams, sketches, maps, or three-dimensional figures and note ways in which those representations do (and do not) match features of the originals.